Federal Statistical Office, 2011 Census
Version 1; 13.02.2018

Special evaluation

Results of the census of 9 May 2011 per grid cell

Explanatory notes

This data set description provides information on the data file produced by evaluations at the grid cell level. The data described here are results for the whole of Germany from the 2011 Census. Using the geo-coordinates available at the address level, the results are allocated to grid cells. By using grid cells, evaluations and geographical comparisons can be implemented irrespective of administrative borders.

The data described in this data set description are provided by the Federal Statistical Office and the statistical offices of the Länder and are licensed under the data licence Germany – attribution – Version 2.0 (dl-de/by-2-0; http://www.govdata.de/dl-de/by-2-0).

The evaluation was based on the results of the 2011 Census with reference date 9 May 2011. 9,698 Germans living abroad were not taken into account for compiling this table.

For the evaluation, the census results were grouped into grid cells meeting INSPIRE requirements. In accordance with the INSPIRE Directive, the Lambert Azimuthal Equal Area Projection was used (ETRS89-LAEA Europe - EPSG:3035). Geographic shape-files for this grid are offered as 'open data' by the Service Centre of the Federal Government for Geo-Information and Geodesy (www.geodatenzentrum.de › Open Data › Free Data and Services of BKG › Geographical Grids for Germany in Lambert projection or directly http://www.geodatenzentrum.de/geodaten/gdz_rahmen.gdz_div?gdz_spr=eng&gdz_akt_zeile=5&gdz_anz_zeile=1&gdz_unt_zeile=31&gdz_user_id=0).

The 2011 Census data on individuals, households, families, buildings and dwellings are available for the whole of Germany and any information is allocated to an address. Through its geo-coordinates, every address is allocated to a grid cell. It should be noted that an address is the smallest regional unit of allocation in the census. For an address which, due to its geographical location, extends over several grid cells, the census values are shown in one grid cell only. The allocation of census values to a grid cell is always based on the geo-coordinate allocated to the address. The main source for geo-coordinates and, consequently, for the allocation of addresses to grid cells is the data from the Federal Agency for Cartography and Geodesy. When the results are available per address, the aggregated value is determined using the grid cell number.

The results of the 2011 Census are kept confidential by means of a data perturbation method. In some cases, this method may lead to larger differences between the original value and the published value. Where the differences are too large, the results are marked as "not to be disclosed". Such marks are contained in the bias indication of the relevant variables.

It should however be noted that the reliability of grid values of about 10 or less, as shown, is limited. This is due to the risk of relative differences of over 50% occurring between the published values and the original values; this risk is caused by the above-mentioned data perturbation method applied to ensure statistical confidentiality in accordance with Article 16 of the Federal Statistics Law.

Due to statistical confidentiality procedures, differences in totals may occur.

The total population (inhabitants) is not changed by the statistical confidentiality procedure. Only grid cells containing one person are classified in the same way as grid cells without any persons, and grid cells with two persons are treated like grid cells with three persons.

Grid cells for which no persons are shown are not contained in the file. The fact that no persons are shown for a specific grid cell may be due to the confidentiality procedure applied.

Variable definitions

Grid-ID (variable "Gitter_ID_100m" and "Gitter_ID_100m_neu") is created in accordance with INSPIRE requirements. For clear referencing and identification of a grid cell, a cell code is used, consisting of the cell size and the coordinates of the bottom left corner in ETRS89-LAEA (EPSG: 3035). For grid cells with a side length of 1 km, the first four digits of the coordinates are used. For grid cells with a side length of 100 m, the first five digits of the coordinates are used. For cells with a side length 1,000 m or more, the cell size is indicated in kilometres ("km").

Every inhabitant is allocated to an address and, consequently, to a grid cell. Members of the Federal Armed Forces, of the police authorities and of the foreign service who work abroad and their families living there are not included in the evaluation.

The **age** (attributes "ALTER_10JG" and "ALTER_KURZ") of the person refers to the completed year of life on 9 May 2011.

Marital status (attribute "FAMSTND_AUSF"): The variable shows a person's marital status. The data adhere to the definitions of the Civil Status Act and the Lifetime Partnership Act.

Country of birth (attribute "GEBURTLAND_GRP"): Places of birth located in states no longer existing in that form, such as the Soviet Union or Yugoslavia, are allocated to the relevant countries existing today where possible. If no clear allocation is possible, the last existing country is shown.

Sex (attribute "GESCHLECHT"): This variable shows a person's gender. The possible variables are "Male" and "Female".

Religion (attribute "RELIGION_KURZ") shows the membership of a public-law religious society.

Citizenship (attributes "STAATSANGE_GRP" and "STAATSANGE_HLND"): People with German citizenship are regarded as Germans irrespective of the existence of additional citizenships. People with citizenship of an EU state and a further citizenship are assigned to the EU

citizenship. People with two non-EU citizenships are assigned to one of these citizenships on the basis of certain criteria.

Number of citizenships (attribute "STAATZHL"): This variable cites the number of citizenships a person has. In the case of people holding several citizenships, a distinction is made between those holding German and foreign citizenships and those holding only foreign citizenships.

More information is available at www.zensus2011.de.

Data structure

Variable name	Description
Gitter_ID_100m	Grid cell code according to Annex II(2.2.1) of Regulation (EU) No 1089/2010 (INSPIRE-regulation)
Gitter_ID_100m_neu	Grid cell code according to Annex II(2.2.1) of Regulation (EU) No 1089/2010 (INSPIRE-regulation) – exhaustive format
Merkmal	Name of the respective attribute
Auspraegung_Code	Code of the respective category of the respective attribute
Auspraegung_Text	(German) Label of the respective category of the respective attribute
Anzahl	Number of people according to 2011 census
Anzahl_q	Bias indication of the published number of people evaluating the bias introduced by the data perturbation done to assure confidentiality. 0 – no or small bias 1 – strong bias 2 – very strong bias; values should be taken with care

List of attributes and categories

All evaluated characteristics and the used categories are listed here. More detailed definitions can be found in section "variable definitions" above. Categories for which no units are shown are not contained in the data files.

Due to statistical confidentiality procedures, differences in totals may occur.

Attribute	Category code	Category defintion
Merkmal	*Auspraegung_Code*	
INSGESAMT	**Total**	
	Due to statistical confidentiality procedures, differences in totals may occur.	
	0	Total units in grid cell
ALTER_10JG	**Age (ten years age groups)**	
	1	Under 5
	2	10 - 19
	3	20 - 29
	4	30 - 39
	5	40 - 49
	6	50 - 59
	7	60 - 69
	8	70 - 79
	9	80 and over
ALTER_KURZ	**Age (five classes of years)**	
	1	Under 18
	2	18 - 29
	3	30 - 49
	4	50 - 64
	5	65 and over
FAMSTND_AUSF	**Marital status (in detail)**	
	1	Single
	2	Married
	3	Widowed
	4	Divorced (including annulled marriages)
	5	Party to a civil union
	6	Civil partner deceased (including "civil union dissolved by death" and "civil union dissolved by declaration of death")
	7	Civil union annulled
	8	No data

Attribute	Category code	Category defintion
GEBURTLAND_GRP	**Country of birth (groups)**	
	1	Germany
	21	EU27 country
		"EU27" refers to the European Union of 27 member states as it existed on the reference date, 9 May 2011. Persons who were born in former Czechoslovakia are also included in "EU27 country".
	22	Rest of Europe
		"Rest of Europe" contains inter alia the Russian Federation and Turkey and also the former states "Yugoslavia (all Yugoslavia)", "Yugoslavia, Federal Republic", "Serbia and Montenegro", "Serbia (including Kosovo)".
	23	Rest of the world
		"Rest of world" contains all other countries. It also includes the former "Soviet Union".
	24	Other
		Contains "Stateless", "Unclear" and "No data".
GESCHLECHT	**Sex**	
	1	Male
	2	Female
RELIGION_KURZ	**Religion**	
	1	Roman Catholic (public law)
	2	Evangelical Church (public law)
	3	Other, none, no data
		Under the breakdown by religion, "Other, none, no data" collates all people who belong to a public-law religious society other than the Roman Catholic or the Evangelical Church. Furthermore, this includes all people who do not belong to a public-law religious society or about whom no data on membership of a public-law religious society is available.

Attribute	Category code	Category defintion
STAATSANGE_GRP	**Citizenship (groups)**	
	1	Germany
	21	EU27 country
		"EU27" refers to the European Union of 27 member states as it existed on the reference date, 9 May 2011. Persons whose citizenship is allocated to former Czechoslovakia are also included in "EU27 country".
	22	Rest of Europe
		"Rest of Europe" contains inter alia the Russian Federation and Turkey and also the former states "Yugoslavia (all Yugoslavia)", "Yugoslavia, Federal Republic", "Serbia and Montenegro", "Serbia (including Kosovo)".
	23	Rest of the world
		"Rest of world" contains all other citizenships. It also includes the former "Soviet Union".
	24	Other
		Contains "Stateless", "Unclear" and "No data".
STAATSANGE_HLND	**Citizenship by selected countries**	
	1	Germany
	2	Bosnia and Herzegovina
	3	Greece
	4	Italy
	5	Kazakhstan
	6	Croatia
	7	Netherlands
	8	Austria
	9	Poland
	10	Romania
	11	Russian Federation
	12	Turkey
	13	Ukraine
	14	Other
		Contains all other citizenships and also "Czechoslovakia", "Yugoslavia (all Yugoslavia)", "Yugoslavia, Federal Republic", "Serbia and Montenegro", "Serbia (including Kosovo)", "Soviet Union", "Stateless", "Unclear" and "No data".

Attribute	Category code	Category defintion
STAATSANGE_KURZ	Citizenship	
	1	Germany
	2	Abroad
		"Abroad" contains all other citizenships. It also includes the former states "Czechoslovakia", "Soviet Union", "Yugoslavia (all Yugoslavia)", "Yugoslavia, Federal Republic", "Serbia and Montenegro", "Serbia (including Kosovo)" and also "Stateless", "Unclear" and "No data".
STAATZHL	Number of citizenships	
	1	One citizenship
	2	Several, German and foreign
	3	Several, only foreign
	4	Unknown
		Contains "Stateless", "Unclear" and "No data".